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Observations of Comet e 1889 (Davidson), made at Sydney Observatory with the 11½-inch Equatorial and Filar Micrometer.

(*Communicated by H. C. Russell, B.A., F.R.S., Government Astronomer.*)

Date.	Sydney M.T.	Star.	No. of Comp.	Comet—Star		Comet's Apparent		Log. $p\Delta$		Obs.
				Δ R.A.	Δ N.P.D.	R.A.	N.P.D.	for R.A.	for N.P.D.	
1889.	h m s			m s	′ ″	h m s	° ′ ″			
July 22	8 51 47	1	4	−4 30·86	−15 36·87	12 32 43·30	125 8 42·31	9·736	0·348	R.
22	10 37 55	2	2	+2 45·95	+ 8 1·57	12 33 42·10	124 57 18·29	9·777	0·616	Pk.
23	7 27 43	3	15	+4 23·73	− 2 26 76	12 45 10·87	122 40 12·22	9·590	0·069	R.
23	8 58 16	4	10	+1 17·32	−53 48·25	12 45 57·67	122 30 0·22	9·720	0·386	R.
24	7 40 0	5	12	+2 9·50	−19 35·17	12 57 54·91	119 54 39·56	9·585	0·192	R.
24	8 58 25	6	9	+1 49·44	+ 0 52·91	12 58 34·18	119 45 32·22	9·699	0·408	R.
24	8 58 25	7	9	−2 59·90	− 5 8·24	12 58 34·31	119 45 28·80	9·699	0·408	R.
26	9 0 33	8	1	+4 42·00	− 3 55·62	12 21 49·29	114 5 25 74	9·663	0·467	R.
26	9 0 33	9	1	+4 32·80	+ 0 46·87	13 21 49·40	114 5 25·88	9·663	0·467	R.
26	10 11 10	9	2	+5 4·24	− 7 43·17	13 22 20·84	113 56 55·84	9·718	0·578	R.
29	7 19 13	10	5	−3 34·32	+ 2 41·02	...	...	9·396	0 472	Pk.
29	7 19 13	11	5	−7 56·66	+ 1 38·28	13 51 15·27	105 49 57·22	9·396	0·472	Pk.
29	9 48 29	12	6	−9 0·19	− 6 55·61	13 52 11·86	105 32 47·54	9·669	0·595	R.
29	9 53 37	13	5	−6 54·00	+ 2 42·98	13 52 13·96	105 32 14·45	9·673	0·599	R.

The observers were R.=Russell; Pk.=Pollock. The reductions have been made by Mr. Pollock.

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Mean Places for 1889·0 *of Comparison Stars.*

Star.	R.A.	Red. to App. Place.	N.P.D.	Red. to App. Place.	Authority.
	h m s	s	° ′ ″	″	
1	12 37 13·81	+0·35	125 24 7·02	+12·16	Argentine Gen. Cat. 17317.
2	12 30 55·84	+0·31	124 49 4·76	+11·96	Argentine Gen. Cat. 17162.
3	12 40 46·77	+0·37	122 42 27·74	+11·24	Stone 7058, Argent. Gen. Cat. 17403.
4	12 44 39·95	+0·40	123 23 37·01	+11·46	Stone 7084, Argent. Gen. Cat. 17473.
5	12 55 44·95	+0·46	120 14 4·38	+10·35	Stone 7174, Argent. Gen. Cat. 17725.
6	12 56 44·26	+0·48	119 44 29·11	+10·20	Argent. Gen. Cat. 17738.
7	13 1 33·71	+0·50	119 50 26·84	+10·20	Stone 7218, Argent. Gen. Cat. 17855.
8	13 17 6·71	+0·58	114 9 13·17	+ 8·19	Argent. Gen. Cat. 18215.
9	13 17 16·02	+0·58	114 4 31·00	+ 8·01	Argent. Gen. Cat. 18221.
10	...	...	...	...	Lalande 25716.
11	13 59 11·15	+0·78	105 48 14·54	+ 4·40	1st Radcliffe Cat. 3128, Yarnall 5816, 2nd Radcliffe Cat. 1349.
12	14 1 11·26	+0·79	105 39 38·83	+ 4·32	2nd Radcliffe Cat. 1357, Greenwich 7-year Cat. for 1860 1129, Yarnall 5832
13	13 59 7·18	+0·78	105 29 27·18	+ 4·29	Weisse's Bessel xiii. 1001.

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Ephemerides of the Satellites of Saturn, 1889–90. By A. Marth.
(*Concluded.*)

Approximate Differences of Right Ascension and Declination between the three outer Satellites and the centre of Saturn.

Greenwich Noon. 1890.		*Titan.*		*Hyperion.*		*Iapetus.*	
		α_6-A	δ_6-D	α_7-A	δ_7-D	α_8-A	δ_8-D
		s	″	s	″	s	″
Jan.	1	+10·27	+31·0	− 1·91	+29·9	−38·29	+31·7
	2	+ 6·28	+32·8	− 6·64	+21·8	38·39	33·4
	3	+ 1·23	+29·2	−10·83	+11·9	38·24	34·8
	4	− 4·04	+20·8	−14·23	+ 1·0	37·84	36·1
	5	− 8·69	+ 9·2	−16·66	−10·0	37·19	37·0
	6	−12·04	− 4·0	−18·02	−20·5	−36·30	+37·7
	7	−13·62	−16·7	−18·27	−29·8	35·18	38·2
	8	−13·25	−27·0	−17·42	−37·4	33·83	38·3
	9	−10·99	−33·6	−15·51	−42·7	32·26	38·2
	10	− 7·07	−35·5	−12·64	−45·5	30·48	37·9
	11	− 2·31	−32·4	− 8·93	−45·3	−28·50	+37·3
	12	+ 2·90	−24·5	− 4·59	−42·0	26·34	36·4
	13	+ 7·68	−12·9	+ 0·11	−35·5	24·01	35·3
	14	+11·28	+ 0·8	+ 4·81	−25·9	21·53	34·0
	15	+13·06	+14·4	+ 9·05	−13·7	18·91	32·5
	16	+12·71	+25·8	+12·30	0·0	−16·16	+30·7
	17	+10·22	+32·9	+14·08	+13·7	13·30	28·7
	18	+ 6·01	+34·6	+14·05	+25·8	10·36	26·6
	19	+ 0·79	+30·6	+12·15	+34·6	7·35	24·3
	20	− 4·58	+21·6	+ 8·68	+39·0	4·28	21·9
	21	− 9·24	+ 9·2	+ 4·14	+38·8	− 1·18	+19·4
	22	−12·51	− 4·8	− 0·86	+34·3	+ 1·94	+16·7
	23	−13·95	−18·1	− 5·81	+26·5	5·05	13·9
	24	−13·38	−29·0	−10·27	+16·4	8·13	11·1
	25	−10·90	−35·8	−13·96	+ 4·9	11·18	8·3
	26	− 6·87	−37·6	−16·67	− 7·0	14·17	5·4
	27	− 1·84	−34·1	−18·29	−18·6	+17·08	+ 2·5
	28	+ 3·45	−25·6	−18·78	−29·1	19·89	− 0·3
	29	+ 8·24	−13·1	−18·13	−37·9	22·59	3·1
	30	+11·74	+ 1·4	−16·38	−44·5	25·16	5·9
	31	+13·35	+15·9	−13·61	−48·5	27·58	8·6